

Application No. 10/529,952
Amendment and Election

PATENT
Attorney Docket No.: LUC-011

Listing of Claims:

Please amend the claims of the application as follows. This Listing of Claims will replace all prior versions and listings of claims in the application:

Claims

Claims 1. – 45. are canceled.

46. (Currently Amended) A router control attachment for a router apparatus, which router apparatus includes router column members along which a route cutting bit can be raised and lowered into contact with a material to be worked such that the depth or a router cut can be controlled, the said attachment comprising a base plate for the router apparatus having two separable parts wherein the first part is adapted to support the router column members, and the second part is adapted to interface with the material to be worked by the router.

47. (Previously Presented) An attachment according to claim 46 further wherein the first part includes at least one element selected from the group consisting of a depth control means; removal means for removal of dust and debris; and means for positioning and supporting guide bushes.

48. (Previously Presented) An attachment according to claim 46 further wherein the second part includes holding and support means for adjustable guides and trammels.

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49. (Previously Presented) An attachment according to claim 46 further wherein the first part comprises an insert which can removably fit within an aperture in a sheet or plate and which insert has a router column attachment means adapted to be attached to the router column members and a hole through which a router cutting bit can pass.

50. (Currently Amended) An attachment according to claim 46 wherein said attachment comprises: (i) a first component which consists of a plate having an aperture in it, which plate is attachable to the router apparatus and, (ii) a second component which comprises an insert which removably fits within the aperture of the first component and which has router column attachment means adapted to be attached to the router column members and which insert has a hole through which a router cutting bit can pass.

51. (Previously Presented) An attachment according to claim 50 wherein the insert has an inner section and an outer section such that the inner section fits within the aperture in the plate to form a tight fit, and the outer section of the insert fits over the upper surface of the plate.

52. (Previously Presented) An attachment according to claim 50 wherein the aperture in the plate is in the form of a socket and the insert is a plug which fits within the socket.

53. (Currently Amended) An attachment according to claim 50 wherein a rebate is formed within the insert so that the lower part, closest in use to a material to be worked, forms a plug and will pass ~~though~~ through the aperture in the plate, which aperture forms a socket, to provide a tight fit, while the top larger section, being of greater width, can be positioned on or above the upper surface of the plate.

54. (Previously Presented) An attachment according to claim 53 wherein a further recess is formed in the underside of the insert to allow a guide bush to be fitted within the recess when so required.

55. (Currently Amended) An attachment according to claim 50 wherein the first component is a sheet of board or other material which can be supported on supports or on a workbench with the router ~~apparatus~~ position beneath the board and attached to the board such that the router ~~apparatus~~ operates upwards with the material to be worked on the sheet of board above the router.

56. (Currently Amended) An attachment according to claim 50 adapted for use in conjunction with a dovetailing jig or similar devices wherein the plate is extended away from an operator and passes between the material to be worked and an additional horizontal rail which can support the router ~~apparatus~~ beyond the edge of the jig so that, on entry into the jig, the router is maintained substantially in the correct plane.

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57. (Previously Presented) An attachment according to claim 50 wherein a shaped recess is formed within the insert to form a plenum chamber to aid in the removal of dust and debris and also wherein, at the bottom of such shaped recess, there is a hole through which a router bit can pass.

58. (Previously Presented) An attachment according to claim 57 wherein, in order to facilitate removal of debris formed by use of the router, an upwardly curving ramp portion is formed leading away from the hole in the insert through which the router bits operates towards an outlet through which the debris will tend to be directed by action of centrifugal forces.

59. (Currently Amended) An attachment according to claim 57 wherein a flexible sealing ring of individual fibres is anchored to a circular ring mounted within the plenum chamber, further wherein each fibre is angled in the direction of the rotation of a router cutter thereby allowing the fibre to be deflected sideways when a cutter passes ~~though~~ through the seal.

60. (Currently Amended) ~~A router apparatus in combination with a router control attachment according to claim 46 wherein said attachment is attached to a router.~~

61. (Currently Amended) ~~A router apparatus in combination with a router control attachment according to claim 50 wherein said attachment is attached to a router.~~

62. (Currently Amended) A method of making a router control attachment for a router comprising the steps of: forming a sealing ring in which by placing a ball of deformable material is placed within an inner ring and spaced apart from a larger ring by means of breakable spokes; winding fibre or wire is wound around the ring and the ball in a series of loops or turns to produce the desired density of the fibre material; placing the wound ring is then placed in an injection moulding machine which simultaneously moulds an outer ring around the component to encapsulate and anchor the fibres, crush and rotate the ball thus breaking the temporary spokes; cutting the fibres are then cut to form an inner aperture; and removing the inner ring and ball removed to obtain a flat sealing element.

63. (Currently Amended) A router attachment according to claim 46 in combination with further comprising a sealing ring made by a method in which placing a ball of deformable material is placed within an inner ring and spaced apart from a larger ring by means of breakable spokes; winding fibre or wire is wound around the ring and the ball in a series of loops or turns to produce the desired density of fibre material; placing the wound ring is then placed in an injection moulding machine which simultaneously moulds an outer ring around the component to encapsulate and anchor the fibres, crush and rotate the ball thus breaking the temporary spokes; cutting the fibres are

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~~then cut to form an inner aperture; and removing the inner ring and ball removed to~~
~~obtain a flat sealing element.~~

64. (Withdrawn/Non-Elected)

65. (Currently Amended) A router attachment according to claim 46 in
~~combination with~~ further comprising a device for controlling in incremental steps the
depth of cut of a router blade in a router ~~apparatus~~ wherein the router comprises a router
body and a base plate, said device comprising a hollow tube, bracket or cartridge around
the outside of which there is positioned a series of incremental spiral steps.

66. (Withdrawn/Non-Elected)

67. (Currently Amended) A router attachment according to claim 46 in
~~combination with~~ further comprising a depth control ~~for attachment to a router apparatus,~~
~~which wherein the~~ router ~~apparatus~~ comprises a router body and a base plate, wherein
said depth control comprises a control bar that attached attaches to the base plate ~~which~~
such that it can be moved relative to the base plate, the router body being able to slide
relative to the control bar and the router body being lockable to the control bar so that,
when the router body is locked to the control bar, vertical adjustment of the control bar
will adjust the depth of a router cut by a corresponding amount.

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68. (Withdrawn/Non-Elected)

69. (Currently Amended) A router attachment according to claim 46 in ~~combination with~~ further comprising a device for controlling in incremental steps the depth of cut by a router blade in a router ~~apparatus~~ wherein said router ~~apparatus~~ comprises a router body and a base plate, said device comprising a hollow tube, bracket or cartridge adapted to be rotatably mounted to a base plate of a router; around the outside of said hollow tube, bracket or cartridge are a series of incremental spiral steps in which the tube, bracket or cartridge, when incorporated in a router ~~apparatus~~, can control the depth of cut by movement of an engagement means attached to the router ~~apparatus~~ so as to engage with the spiral steps to prevent further downward movement of the router and cutter, so that, in use, rotation of the tube, bracket or cartridge causes the attachment ~~means~~ to move down the spiral steps in incremental stages and the router blade to move a corresponding distance downwards.